

Tennessee Green Fleets

2018 Class of Certified Fleets



2018 Sustainable Transportation Forum & Expo

September 17-18, 2018
University of Tennessee, Knoxville
Conference Center Building



TENNESSEE CLEAN FUELS

Tennessee Green Fleets Certification Program
2018 Fleet Class



Who is TNCleanFuels?



- ✓ Two 17-year old nonprofits in TN
 - Both are 501(c)3s; serving the western & eastern halves of the state
 - Became designated members of U.S. DOE Clean Cities Program on consecutive days in 2004
- ✓ Helps fleets with triple bottom line of profit, people & planet by reducing petroleum use

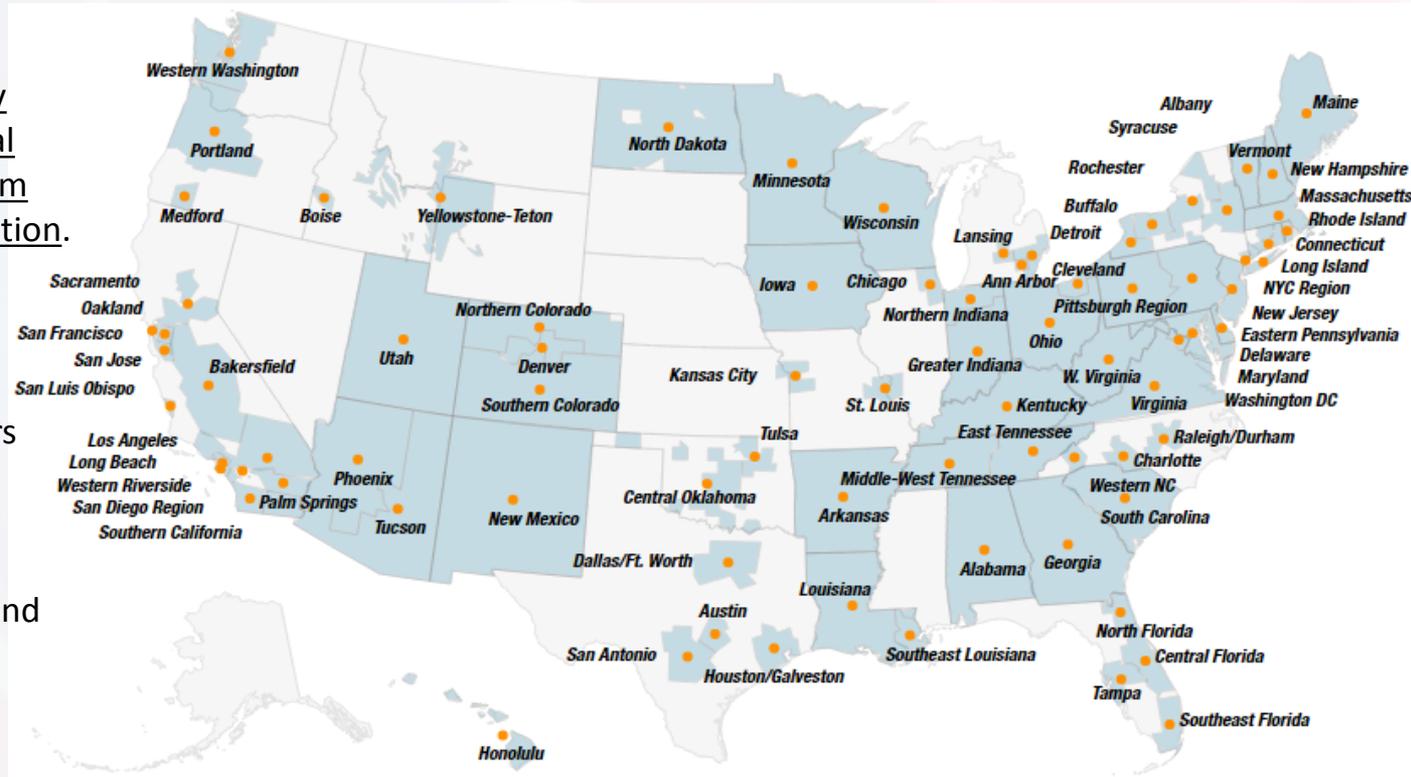


What is Clean Cities?



Clean Cities advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum consumption in transportation.

Nearly 90 Clean Cities coalitions bring together stakeholders to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies.



Thank you TDEC & TDOT!

Teamwork makes it happen!

We sincerely appreciate the opportunity to work with the great people of TDEC and TDOT to bring this event to Tennesseans.



What is Tennessee Green Fleets?

- ✓ Certification Program – Assess fleet changes in recent years
 - ✓ Any size fleet can be reviewed
 - ✓ Must meet certain base score (40 points)
 - ✓ 1-, 2- and 3-star certification levels
 - 1-star = min. of 40 pts
 - 2-star = min. of 80 pts
 - 3-star = min. of 120 pts
- 3-star fleets must receive certain “*Criteria*” points



TNGreenFleets Points System

- ✓ Achievement Points (200) – Reductions in CO2 emissions & petroleum use; Increases in # of advanced or alternative fuel vehicles in fleet
- ✓ Criteria Points (19) – Strategic plan, Leadership support, Communications plan & outreach, Partnerships, Infrastructure

TNCleanFuels' Diamond & Platinum Members:



Thank you Presenting Sponsor -

ICOM North America

- ✓ North America's largest propane system installer; bi-fuel & dedicated
- ✓ All are liquid-injection systems



Thank you Heavy-Duty Sponsors – **Lightning Systems & Waste Management**

Lightning Systems

- ✓ Innovators with multiple awards, like “Best Venture” from NREL
- ✓ Lightning Electric, Hybrid and Analytics solutions for fleets



Waste Management

- ✓ They are one of the largest CNG fleets in TN with ~115 refuse trucks in Nashville, Jackson & Knoxville! Two trucks in showcase – refuse & roll-off



2016 TN Green Fleets Class



1 star = City of Kingsport Police Fleet,
Scott Appalachian Industries, Gibson
County Utility District

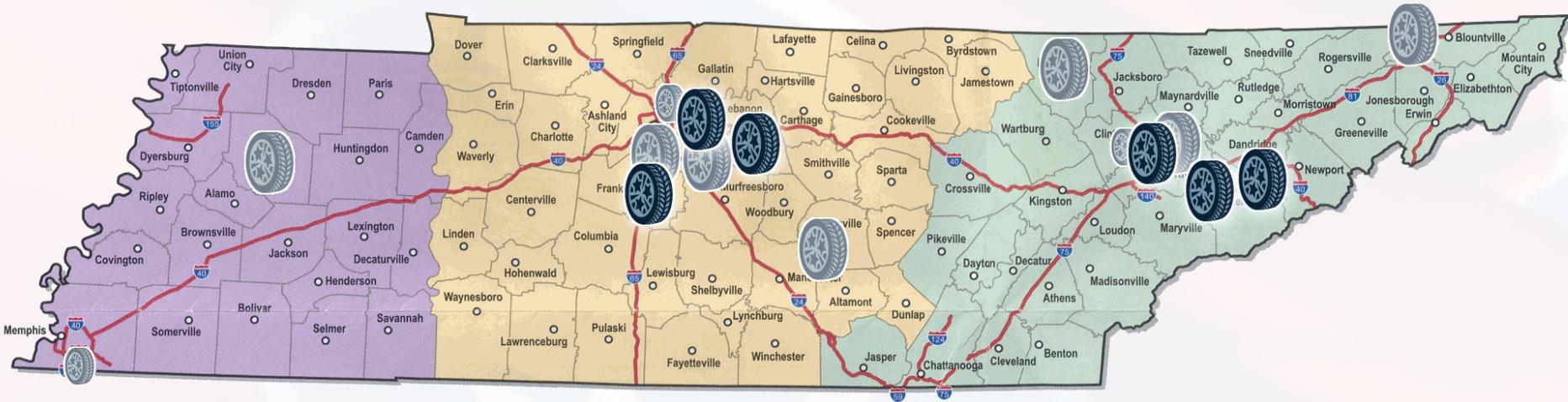


2 star = Common Grounds
Landscape Management,
Turf Managers LLC



3 star = Waste Management - Antioch Refuse Fleet,
UPS - Tennessee Class-8 Fleet, Sullens Transport LLC

2017 TN Green Fleets Class



1 star =

**Middle Tennessee Natural Gas,
Knoxville Utilities Board,
City of Sevierville,
Piedmont Natural Gas | Nashville**

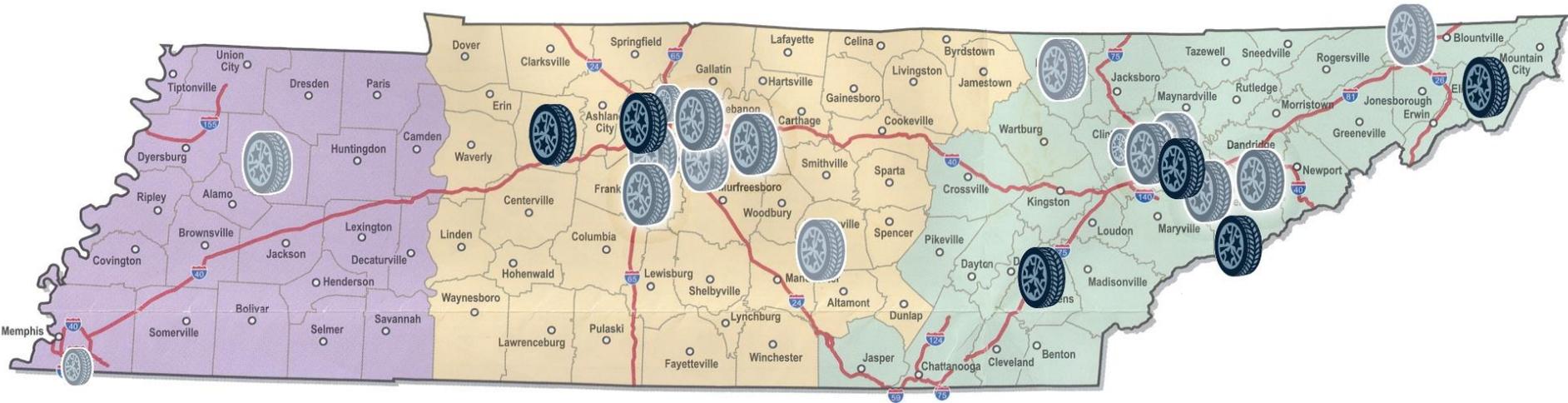


2 star =

**Sevier County Utility District,
Franklin Transit Authority**



2018 TN Green Fleets Class



**1 star = Greater Dickson Gas Authority
WeGo Public Transit, Downtown Service
Athens Utilities Board, Natural Gas Div.
Great Smoky Mountains National Park
NET Trans, Carter County Fleet**



**2 star = City of Knoxville,
Mower Fleet**



Greater Dickson Gas Authority



45.4 pts

- ✓ 24% of fleet – 16 vehicles – run on CNG or propane
- ✓ Operate a public CNG station in Dickson
- ✓ Partnered for numerous events and educational opportunities, including for the nationwide 2017 NGV Rally for which they were a stop!



WeGo Public Transit | Downtown Service



68.8 pts

- ✓ 9 electric Proterra buses are in use in the downtown area to provide busing services; one bus serves as a backup as needed
- ✓ In the buses that serve the downtown area, roughly 1/4th of those buses energy need is electricity; generates almost 500 short tons of CO₂ emissions reductions annually
- ✓ Highly visible; can't miss them in downtown Nashville



Athens Utilities Board | NG Div.



67.0 pts

- ✓ 9 of 21 vehicles in the gas division are NGVs – 43%
- ✓ Maintain one of the longest-serving public CNG stations in the East Tennessee area, that is right on I-75!
- ✓ Have assisted in outreach efforts multiple times throughout Tennessee



Great Smoky Mountains National Park



44.1 pts

- ✓ Started using biodiesel as B20 in 2004
- ✓ Began propane program in 2014; now have 6 propane work trucks and 5 propane zero-turn mowers
- ✓ Long-time partner on education to promote action for emissions reduction



NET Trans | Carter County Fleet



65.5 pts

- ✓ Through partnership with Alliance AutoGas, have developed plans to transition many of their vehicles across their service area in NE Tennessee; *partner with AAG on Greene County's first public propane refueling station, a first of its kind in Tennessee!*
- ✓ Utilize propane autogas in six Ford Transits that serve several counties out of their Elizabethton domicile site
- ✓ Helping drive education on propane opportunities in NE Tennessee



City of Knoxville | Mower Fleet



89.1 pts

- ✓ Began work in 2014-2015 learning about use of propane mowers in the area
- ✓ Converted first two mowers in 2015; added 9 more Kubota OEM propane mowers in 2016, and another 6 more Ferris mowers in 2017
- ✓ 19—exactly half—of the zero-turn fleet runs on propane
- ✓ Test ran renewable diesel in 2017



Congratulations to the 2018 Tennessee Green Fleets class!



1 star fleets

- ✓ Greater Dickson Gas Authority
- ✓ WeGo Public Transit, Downtown Service
- ✓ Athens Utilities Board, NG Department
- ✓ Great Smoky Mountains National Park
- ✓ NET Trans, Carter County Fleet



2 star fleet

- ✓ City of Knoxville, Mower Fleet